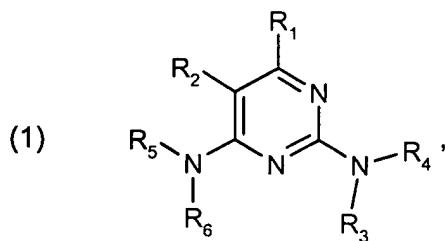


In the claims:

Claims 1-21 (cancelled).

22. (currently amended) A method for the antimicrobial treatment of a surface of a plastic, which comprises contacting said surface of a plastic with an antimicrobially effective amount of a 2,4-bis(alkylamino)pyrimidine of formula



wherein

R_1 is $\text{C}_1\text{-C}_{12}\text{alkyl}$ or $\text{C}_6\text{-C}_{10}\text{aryl}$;

R_2 is hydrogen or $\text{C}_1\text{-C}_{12}\text{alkyl}$;

R_3 and R_5 are each independently of the other hydrogen or $\text{C}_1\text{-C}_8\text{alkyl}$;

R_4 is $\text{C}_1\text{-C}_{20}\text{alkyl}$, ~~unsubstituted phenyl, $\text{C}_6\text{-C}_{10}\text{aryl}$, $\text{C}_6\text{-C}_{10}\text{aryl-C}_1\text{-C}_6\text{alkyl}$, hydroxy- $\text{C}_1\text{-C}_6\text{alkyl}$, di- $\text{C}_1\text{-C}_6\text{alkylamino-C}_1\text{-C}_6\text{alkyl}$, mono- $\text{C}_1\text{-C}_6\text{alkylamino-C}_1\text{-C}_6\text{alkyl}$, $-(\text{CH}_2)_2\text{-(O-(CH}_2)_2\text{)}_{1-4}\text{-OH}$ or $-(\text{CH}_2)_2\text{-(O-(CH}_2)_2\text{)}_{1-4}\text{-NH}_2$~~ ;

R_6 is $\text{C}_1\text{-C}_{20}\text{alkyl}$, ~~$\text{C}_6\text{-C}_{10}\text{aryl}$, $\text{C}_6\text{-C}_{10}\text{aryl-C}_1\text{-C}_6\text{alkyl}$, hydroxy- $\text{C}_1\text{-C}_6\text{alkyl}$, di- $\text{C}_1\text{-C}_6\text{alkylamino-C}_1\text{-C}_6\text{alkyl}$, mono- $\text{C}_1\text{-C}_6\text{alkylamino-C}_1\text{-C}_6\text{alkyl}$, $-(\text{CH}_2)_2\text{-(O-(CH}_2)_2\text{)}_{1-4}\text{-OH}$ or $-(\text{CH}_2)_2\text{-(O-(CH}_2)_2\text{)}_{1-4}\text{-NH}_2$~~ ;

R_3 and R_4 and/or R_5 and R_6 together form a pyrrolidine, piperidine, hexamethyleneimine or morpholine ring.

23. (previously presented) A method according to claim 22, wherein

R_1 is $\text{C}_1\text{-C}_8\text{alkyl}$ or phenyl.

24. (previously presented) A method according to claim 22, wherein

R_2 is hydrogen or $\text{C}_3\text{-C}_8\text{alkyl}$.

25. (withdrawn) A method according to claim 22, wherein

R_3 and R_5 are each independently of the other hydrogen or $\text{C}_1\text{-C}_8\text{alkyl}$.

26. (withdrawn) A method according to claim 22, wherein

R_4 is C_1 - C_{12} alkyl, unsubstituted phenyl, C_6 - C_{10} aryl- C_1 - C_6 alkyl, hydroxy- C_2 - C_6 alkyl, di- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, mono- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-OH$ or $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-NH_2$; and

R_6 is C_1 - C_{12} alkyl, C_6 - C_{10} aryl, C_6 - C_{10} aryl- C_1 - C_6 alkyl, hydroxy- C_2 - C_6 alkyl, di- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, mono- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-OH$ or $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-NH_2$.

27. (withdrawn) A method according to claim 22, wherein

R_1 is C_1 - C_8 alkyl or phenyl;

R_2 is hydrogen or hexyl; and

R_3 and R_5 are each independently of the other hydrogen or C_1 - C_8 alkyl;

R_4 is C_1 - C_{12} alkyl, unsubstituted phenyl, C_6 - C_{10} aryl- C_1 - C_6 alkyl, hydroxy- C_2 - C_6 alkyl, di- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, mono- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-OH$ or $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-NH_2$; and

R_6 is C_1 - C_{12} alkyl, C_6 - C_{10} aryl, C_6 - C_{10} aryl- C_1 - C_6 alkyl, hydroxy- C_2 - C_6 alkyl, di- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, mono- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-OH$ or $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-NH_2$; or

R_3 and R_4 and/or R_5 and R_6 together form a pyrrolidine, piperidine, hexamethyleneimine or morpholine ring.

28. (cancelled)

29. (currently amended) A method according to claim 22, wherein

R_1 is C_1 - C_4 alkyl or phenyl;

R_2 is hydrogen or hexyl

R_3 and R_5 are each independently of the other hydrogen or C_1 - C_8 alkyl;

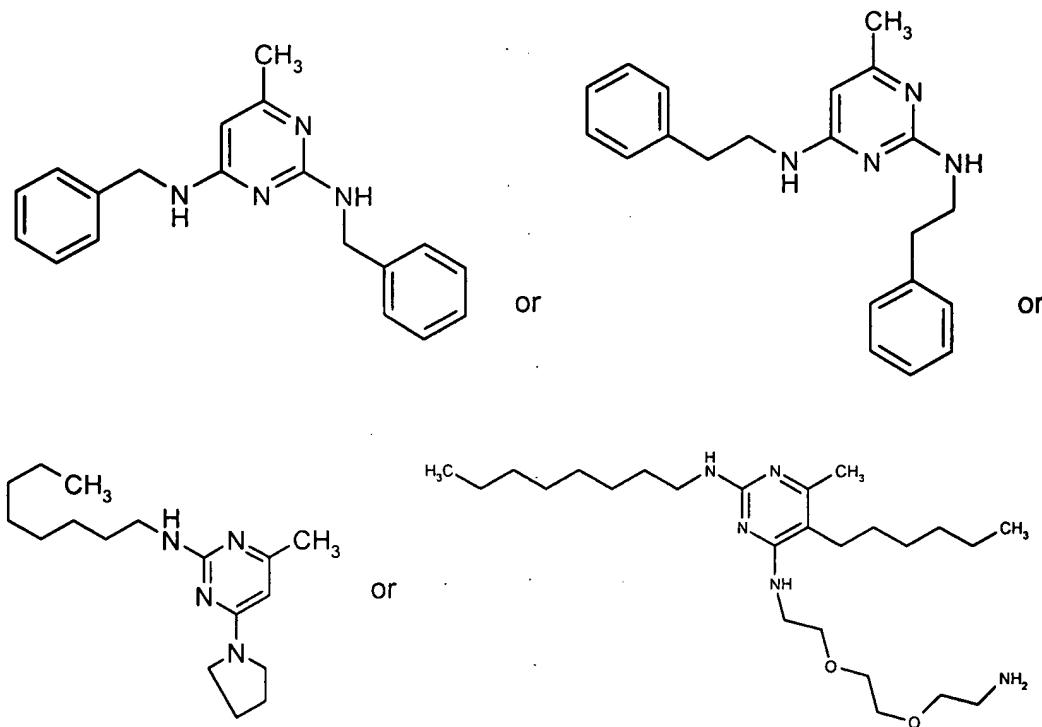
R_4 is C_1 - C_{12} alkyl, unsubstituted phenyl, C_6 - C_{10} aryl- C_1 - C_6 alkyl, hydroxy- C_2 - C_6 alkyl, di- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, mono- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-OH$ or $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-NH_2$; and

R_6 is C_1 - C_{12} alkyl, C_6 - C_{10} aryl, C_6 - C_{10} aryl- C_1 - C_6 alkyl, hydroxy- C_2 - C_6 alkyl, di- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, mono- C_1 - C_4 alkylamino- C_1 - C_4 alkyl, $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-OH$ or $-(CH_2)_2-(O-(CH_2)_2)_{1,2}-NH_2$; or
 R_3 and R_4 together, and R_5 and R_6 together, form a pyrrolidine, piperidine, hexamethyleneimine or morpholine ring.

30. (withdrawn) A method according to claim 22, wherein

R_3 and R_5 , and R_4 and R_6 , have the same meanings.

31. (previously presented) A method according to claim 22, wherein the 2,4-bis(alkylamino)pyrimidine is of the formula



32-42. (cancelled)